

# PATENT SPECIFICATION

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DRAWINGS ATTACHED



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## (54) IMPROVEMENTS IN OR RELATING TO A SUPPORT BRACKET FOR THE MOUNTING OF CLOTHES RAILS

(71) We, LINDE AKTIENGESELLSCHAFT, a German Company of Wiesbaden, Hildastrasse 2—10, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to a support bracket for mounting clothes rails on which articles of clothing are to be hung. Support brackets are known comprising an arm having at one end means for attaching the arm at right angles to a mounting surface, such as a wall, such brackets are, however, only suitable for hanging up articles of clothing which are within a predetermined maximum width. Subsequent alteration of the device to accommodate wider articles of clothing is not possible or at best is very expensive. The proprietor or manager of a clothing store must therefore decide upon a particular size from the outset. It is an object of the invention to provide a support bracket for mounting clothes rails which does not suffer from this disadvantage and which is therefore capable of wide application.

According to the invention, there is provided a support bracket for mounting clothes rails comprising an arm having attachment means at one end thereof for mounting the arm on a substantially vertical mounting surface so as to project substantially normally thereto, said arm having a longitudinal groove formed in a surface thereof which is the under surface when said arm is mounted on said mounting surface, said groove having a cross-section increasing in width from said surface of said arm, and a clothes rail support member having a part adapted to engage in and slide along said groove.

The groove can be produced in a particularly simple manner if its cross-section is trapezoidal. Further simplification and saving of cost in the manufacture of the device results by forming the support member as an

angle-piece or elbow one end being adapted to slide in the groove and the other, which is offset at an angle, being provided with a hook adapted to the cross-section of the clothes rails and provided with retaining pins which engage in corresponding holes in the clothes rails when the rails are fitted into the hook. Any inadvertent displacement of the clothes rails in the hook is thus prevented by the retaining pins.

It is advantageous if the mounting means, the arm and the support member are manufactured from metal, and particularly favourable for them to be aluminium castings. The arm may also conveniently be made of an aluminium hollow section, the end remote from the mounting means being closed by a plate through which a metal hanging bar passes into the interior of the arm. The hanging bar is preferably a steel bar of triangular cross-section. The bar is slidable in the plate and can be extended outwardly along the axis of the arm. Articles of clothing selected by the customer, or set aside for final choice, can be hung from this extending bar.

The fixing of the support member in a given position on the arm may be simply effected by providing the support member with a locking screw which bears upon the bottom of the groove.

The invention will now be further described with reference to the drawings, in which:—

Figure 1 is a perspective view of a support bracket in accordance with the invention;

Figure 2 is a side view of the bracket of Figure 1; and

Figure 3 is an end view of the bracket of Figures 1 and 2, partially in section along the line III—III of Figure 2.

As shown in Figure 1, an arm 1 is provided with an attachment member 3 fitted to the one end. The arm 1 is a hollow, rectangular aluminium bar, and the attachment member 3 is simply formed as a hook to be

carried from a shelf-support rail. An extending hanging bar 11, which is of steel and has a triangular cross-section, is slidably inserted into the arm 1 through a plate 10 which closes the end of the arm remote from the member 3. A support member 4 provided with a locking screw 5 and a hook 6 for holding clothes rails 7 is mounted below the arm 1 as will hereinafter be described. A clothes hanger 12 is also illustrated in Figure 1 to indicate the use of the device.

Figure 2 shows more clearly the shape of the support member 4, and the location of retaining pins 8, 9 which are fitted at the lowest part of the hook 6. The clothes rails 7 illustrated are of oval cross-section.

As shown in Figure 3 a longitudinal groove 2, having a trapezoidal cross-section is formed in the lower surface of the arm 1 and in which the end of the member 4 remote from the hook 6 slides. The groove 2 is disposed exactly in the centre of the lower surface of the arm 1. The two abutting ends of the clothes rails 7 can also be seen in Figure 3, secured against displacement by the two retaining pins 8 and 9 which pass through corresponding holes in the rails. The other two ends of the clothes rails 7, which are not shown, also rest in the two hooks of two similar brackets in accordance with the invention spaced one on either side of the bracket illustrated.

#### WHAT WE CLAIM IS:—

1. A support bracket for mounting clothes rails comprising an arm having attachment means at one end thereof for mounting the arm on a substantially vertical mounting surface so as to project substantially normally thereto, said arm having a longitudinal groove formed in a surface thereof which is the under surface when said arm is mounted on said mounting surface, said groove having a cross-section increasing in width from said surface of said arm, and a clothes rail support member having a part adapted to engage in and slide along said groove.

2. A support bracket as claimed in Claim

1, wherein said groove has a trapezoidal cross-section.

3. A support bracket as claimed in Claim 1 or Claim 2, wherein said support member is angled in side view and is provided at its end remote from said part with a hook shaped to receive the clothes rails and provided with retaining pins adapted to co-operate with corresponding holes in the clothes rails to maintain the clothes rails in position in said hook.

4. A support bracket as claimed in any one of Claims 1 to 3, wherein said attachment means, said arm and said support member are of metal.

5. A support bracket as claimed in Claim 4 wherein said attachment means, said arm and said support member are aluminium castings.

6. A support bracket as claimed in any one of Claims 1 to 5, wherein said arm is a hollow, aluminium section, closed by a plate at its end remote from said attachment means and provided with a metal hanging bar slidably through a hole in said plate into and out of the interior of said arm in the axial direction thereof.

7. A support member as claimed in Claim 6 wherein said hanging bar is of steel and has a triangular cross-section.

8. A support bracket as claimed in any one of the preceding Claims wherein said support member is provided with a locking screw which bears on the bottom of said groove.

9. A support bracket for mounting clothes rails substantially as hereinbefore described with reference to and as shown in the drawing.

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